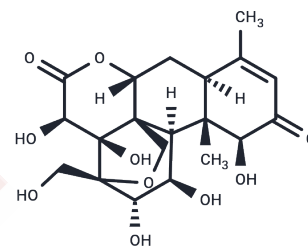


Yadanziolide A

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 95258-14-3 |
| Formula: | C ₂₀ H ₂₆ O ₁₀ |
| Molecular Weight: | 426.41 |
| Storage: | Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i> |



Biological Description

| | |
|----------------------------|--|
| Description | Yadanziolide A is a natural product isolated from the cultivated dry seeds of <i>Brucea javanica</i> , has strong antiviral activities with IC ₅₀ of 5.5 μM against tobacco mosaic virus. Yadanziolide A shows significant antitumor effects. |
| Targets(IC ₅₀) | Antiviral, TMV |
| In vitro | The antitobacco mosaic virus (TMV) activity of these quassinoids was screened by the conventional half-leaf and leaf-disk method along with Western blot analysis[1] |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 100 mg/mL (234.52 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (7.74 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.3452 mL | 11.7258 mL | 23.4516 mL |
| 5 mM | 0.469 mL | 2.3452 mL | 4.6903 mL |
| 10 mM | 0.2345 mL | 1.1726 mL | 2.3452 mL |
| 50 mM | 0.0469 mL | 0.2345 mL | 0.469 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Anti-tobacco mosaic virus (TMV) Quassinoids from *Brucea javanica* (L.) Merr. *J Agric Food Chem.* 2010 Feb 10;58(3): 1572-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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